

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of )  
 )  
Du-sik PARK et al. ) Group Art Unit: Unassigned  
 )  
Application No.: New Application ) Examiner: Unassigned  
 )  
Filed: Herewith )  
 )  
For: APPARATUS AND METHOD FOR )  
EXTRACTING OBJECT BASED ON )  
FEATURE MATCHING BETWEEN )  
SEGMENTED REGIONS IN )  
IMAGES )

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination on the merits, kindly amend the above-captioned application as follows:

**IN THE SPECIFICATION:**

Kindly add the following paragraph on page 1, after the title of the invention and before the "Background of the Invention," --Priority is claimed to Patent Application Numbers 2001-3422 filed in Rep. of Korea on January 20, 2001 and 2001-68383, filed in the Republic of Korea on November 3, 2001, herein incorporated by reference.--

**IN THE CLAIMS:**

Kindly replace claims 31 and 32 as follows:

31. (Amended) The method of claim 27, wherein the step (d4), the similarity is calculated from

$$S = \frac{E_u}{M_u}$$

and when each element in the adjacency matrixes has a first value when corresponding regions are adjacent and has a second value when they are not adjacent,  $E_u$  indicates the number of elements having the first value in an upper triangular matrix of the comparison matrix, and  $M_u$  indicates the number of all elements in the upper triangular matrix.


32. (Amended) A computer readable recording medium on which a program for executing the method of claim 14 in a computer is recorded.

**REMARKS**

A change has been made to the specification by the above amendments. Claims 31 and 32 have been amended to remove multiple dependency. Favorable action on the merits is respectfully requested.

Respectfully submitted,

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**Attachment to Preliminary Amendment**

**Marked-up copy of Claims 31 and 32**

31. (Amended) The method of claim 26 [or 27], wherein the step (d4), the similarity is calculated from

$$S = \frac{E_u}{M_u}$$

and when each element in the adjacency matrixes has a first value when corresponding regions are adjacent and has a second value when they are not adjacent,  $E_u$  indicates the number of elements having the first value in an upper triangular matrix of the comparison matrix, and  $M_u$  indicates the number of all elements in the upper triangular matrix.

32. (Amended) A computer readable recording medium on which a program for executing the method of [any one of claims 14 through 31] claim 14 in a computer is recorded.